

## ARIZONA DEPARTMENT OF WATER RESOURCES

500 North Third Street  
Phoenix, Arizona 85004

## WELL DRILLER REPORT

This report should be prepared by the driller in all detail and filed with the Department within 30 days following completion of the well.

1. Owner Name: BHP  
Address: 14605 E. Hunt Hwy Florence AZ 87021 8680463  
Street City State Zip
2. Driller Name: Stewart Brothers Drilling Co.  
Address: P.O. Box 2067 Milan NM 87021  
Street City State Zip
3. Location: 4 N 10 9 E W 28  $\frac{1}{4}$  SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  NE  
Township Range Section 10-acre 40-acre 160-acre
4. Well Registration No. 55- 556090 (Required)
5. Permit No. \_\_\_\_\_ (If issued)

## DESCRIPTION OF WELL

6. Total depth of hole 290 ft.
7. Type of casing PVC and LCS
8. Diameter and length of casing 6 in. from 280 to +2', in from \_\_\_\_\_ to \_\_\_\_\_
9. Method of sealing at reduction points No reductions
10. Perforated from \_\_\_\_\_ to \_\_\_\_\_, from \_\_\_\_\_ to \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_
11. Size of cuts \_\_\_\_\_ Number of cuts per foot \_\_\_\_\_
12. If screen was installed: Length 40 ft. Diam 6 in. Type Pvc, 1080 slot, PVC, 1080
13. Method of construction drilled mud rotary  
(drilled, dug, driven, bored, jetted, etc)
14. Date started April 7 1996  
Month Day Year
15. Date completed April 10 1996  
Month Day Year
16. Depth to water 160 ft. (If flowing well, so state)
17. Describe point from which depth measurements were made, and give sea-level elevation if available  
2' Above land surface
18. If flowing well, state method of flow regulation: \_\_\_\_\_

19. Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DO NOT WRITE IN THIS SPACE  
OFFICE RECORD

Registration No. 55-556090

File No. D(4-9)28 Ace ADD

Received \_\_\_\_\_ By \_\_\_\_\_

Entered **ENTERED JUN 12 1996** By \_\_\_\_\_

## LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

[illegible]

I hereby certify that this well was drilled by me(or under my supervision), and that each and all statements herein contained are true to the best of my knowledge and belief.

Driller Name: Stewart Brothers Drilling Co.  
PO Box 2067  
 Street Milan NM 87021  
 City State Zip Phone No.  
T. Robin D. Island  
 Signature of Driller Date

## MONITOR/PIEZOMETER WELL

FILING FEE \$10.00

## ARIZONA DEPARTMENT OF WATER RESOURCES

Operations Division  
15 SOUTH 15TH AVENUE  
PHOENIX, ARIZONA 85007

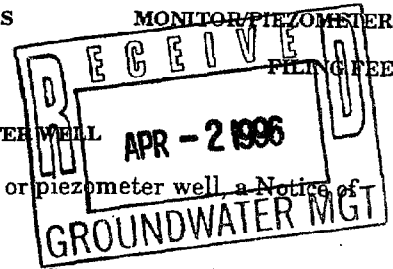
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## MONITOR/PIEZOMETER WELL

FILING FEE \$10.00

## NOTICE OF INTENTION TO DRILL MONITOR/PIEZOMETER WELL

Section § 45-596, Arizona Revised Statutes provide: Prior to drilling a monitor or piezometer well, a Notice of Intention to Drill shall be filed with the Department.



## 1. WELL LOCATION:

4 N(S) 9 (E)W 28  
Township Range Section  
SW 1/4 SE 1/4 NE 1/4  
10 ACRE 40 ACRE 160 ACRE

## 2. Position location of the well on the land:

Latitude 33 0 3 ' 13 "

Longitude 111 0 25 ' 47 "

## 3. County: Pinal

## 4. Owner of the land of wellsite:

BHP  
Name  
14605 E. Hunt Highway  
Address  
Florence AZ 85232  
City State Zip

## 5. Lessee of the land of wellsite:

N/A  
Name  
Address  
City State Zip

## 6. Owner of well:

BHP  
Name  
14605 E. Hunt Highway  
Address  
Florence AZ 85232  
City State Zip

## 7. Consulting Firm: Brown &amp; Caldwell

Contact Person: M. Glotfelty

Phone: (602) 222-4444

## 8. Purpose of well drilled pursuant to this notice

Monitor ☒ XPiezometer ☐

## 9. If for deepening or modifying, Well Registration Number

55- \_\_\_\_\_

## 10. Construction will start:

April 17 1996  
Month Day Year

## 11. Period well will remain in

use 10 Months/Years

## 12. For monitoring wells, is pump equipment to be installed?

Yes ☒ X No ☐

(a) If yes, design pump capacity 10 gpm

(b) What use will be made of the water sampling only

## 13. Drilling firm:

Stewart Bros. Drilling Co.  
Name 306 Airport Road  
P. O. Box 2067  
Address  
Milan NM 87021  
City State Zip  
DWR License No. 314  
A-04  
ROC License classification

## 14. Is the proposed wellsite within 100 feet of a septic tank system, sewage disposal area, landfill, hazardous waste facility, storage area of hazardous material or petroleum storage areas and tanks?

Yes ☐ No ☒ X

## 16. Proposed method of abandonment of well after project is completed: in accordance with ADWR rule R12-15-816

17. Is this well to monitor existing contamination? Potential contamination ☒ X. Please explain: point of compliance monitor well for APP

## GENERAL INSTRUCTIONS

- Fill out this form in **DUPLICATE** and send **WITH \$10.00 FEE** to 15 South 15th Avenue, Phoenix, AZ 85007.
- For specific instructions, limitations and conditions, see the reverse side of this form.
- Must be signed by land owner or lessee.
- Section §45-596(D), provides that the Director shall determine that all information required on form has been submitted. If not, the person filing will be notified and the drilling, deepening, or modification of the well may not proceed.

I state that Notice is filed in compliance with Section § 45-596 and is complete and correct to the best of my knowledge and belief and that I understand the conditions set forth on the reverse side of this form.

Typed or Printed Name  
John T. Kline

Signature ☒ Land Owner ☐ Lessee of wellsite

Date  
3/19/96

18. If construction plans have been coordinated with Arizona Department of Environmental Quality, who is the agency contact? NA  
 If construction plans have been coordinated with Arizona Department of Water Resources, who is the agency contact? NA
19. WELL CONSTRUCTION PLAN
- a) Drilling method (mud rotary, hollow-stem auger, etc.) Mud Rotary
- b) Borehole diameters: 14 1/2 inches from 0 feet to 19 feet.  
9 5/8 inches from 19 feet to 290 feet.
- c) Casing materials (PVC, steel, hollow-stem auger, etc.)  
 material LCS diameter 10 3/4 inches from -1 feet to 19 feet  
 material LCS diameter 6 5/8 inches from -2 feet to 240 feet
- d) Method of sealing at reductions No reductions
- e) Annular seal materials (cement, grout, etc.); method of placement (tremied, circulated)  
 material Cement Grout method tremie from 0 feet to 220 feet  
 material Fine Sand method tremie from 220 feet to 230 feet
- f) Filter packs (state material):  
 material Colorado Silica Sand from 230 feet to 290 feet  
 material \_\_\_\_\_ from \_\_\_\_\_ feet to \_\_\_\_\_ feet
- g) Perforations or screen specifications:  
 type PVC, .080-inch slots from 240 feet to 280 feet  
 type \_\_\_\_\_ from \_\_\_\_\_ feet to \_\_\_\_\_ feet
- h) Method of well development (bail, air lift, surge) Air Lift
- i) Will surface or conductor casing extend above grade: Yes X No \_\_\_\_\_
20. Include detailed construction diagram showing expected water depth in feet below land surface, and details of vault, if specified.

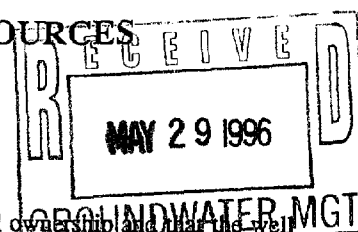
## CONDITIONS

- I. Construction and abandonment standards for all wells shall be in accordance with A.A.C. R12-15-811 and R12-15-816.
- II. Drilling of the well shall be completed within one (1) year after the date of Notice.
- III. A Well Driller Report, is required within 30 days of completion of drilling. A Completion Report, is required to be filed with the Department within 30 days after installation of pump equipment for monitor wells.
- IV. Pump equipment may not be installed on a well drilled for piezometer purposes. If a monitor well is pumped, pumping is limited to the maximum amount required for monitor purposes, but in no case may exceed 35 gallons per minute and an annual volume of 10 acre feet total.
- V. A.A.C. Rule R12-15-811.H.2, requires that: "A monitor well shall be identified as such on the vault cover or at the top of the steel casing. Identification information will include well registration number."
- VI. Special construction standards required pursuant to A.A.C. Rule R12-15-821: \_\_\_\_\_

## ARIZONA DEPARTMENT OF WATER RESOURCES

## OPERATIONS DIVISION

15 South 15th Avenue  
Phoenix, Arizona 85007  
(602) 542-1581



**NOTE:** A.R.S. §45-593.C. requires that the Department be notified of change of well ownership and that the well owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within thirty (30) days after changes take place. Therefore, this form may be completed in full by either the previous or new owner.

SAVE THIS FORM TO REPORT FUTURE CHANGES IN OWNERSHIP, CHANGES IN ADDRESS, OR CHANGE IN WELL DATA SUCH AS PUMP CAPACITY, CORRECTION OF LEGAL DESCRIPTION, CHANGE OF WELL DRILLER AND AMENDING INFORMATION PREVIOUSLY FILED.

CHANGE OF WELL INFORMATION

Well Registration No. 55- 556090 File No. D(4-9)28acc (If known)

I/We request the following well information be changed: Well location: ~~SE 1/4~~ of the SE 1/4 of the NE 1/4 of section 28, Township 4S, Range 9E (D(4-9)28acc)

ENTERED JUN 10 1996

Date: 5/23/96

Signature of Current Well Owner

BHP

STATEMENT OF CHANGE OF WELL OWNERSHIP

I, \_\_\_\_\_, state that I am (no longer) the (new) owner of the well described below:

1/4 1/4 1/4; Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_  
10 acre 40 acre 160 acre

Well Registration No. 55- \_\_\_\_\_ File No. \_\_\_\_\_ (If known)

PRINT Previous Owner's Name

PRINT New Owner's Name

Mailing Address

Mailing Address

City State Zip

City State Zip

Telephone

Telephone

Dated \_\_\_\_\_ Signature Previous/New Owner \_\_\_\_\_  
DWR-55-71-6/93(Rev)

# ARIZONA DEPARTMENT OF WATER RESOURCES

Operations Division, 500 North Third Street  
Phoenix, Arizona 85004 Telephone (602) 417-2470

## 3. REQUEST TO CHANGE WELL DRILLER \$10.00 FEE REQUIRED FOR EACH WELL

This request must be received by this Department and the Drill Card issued to the new drilling firm PRIOR to the drilling or completion of any well.

Well Registration No. 55-\_\_\_\_\_ File No. \_\_\_\_\_

Original Well Driller \_\_\_\_\_

New Well Driller \_\_\_\_\_

Mailing Address \_\_\_\_\_

Mailing Address \_\_\_\_\_

ADWR License Number \_\_\_\_\_

ADWR License Number \_\_\_\_\_

R.O.C. License Number \_\_\_\_\_

R.O.C. License Number \_\_\_\_\_

Typed or Printed Name of Well Owner \_\_\_\_\_ Signature of Well Owner \_\_\_\_\_ Date \_\_\_\_\_

The fee charge for well ownership and reissue of drill card is authorized by R12-15-151, effective June 30, 1994.

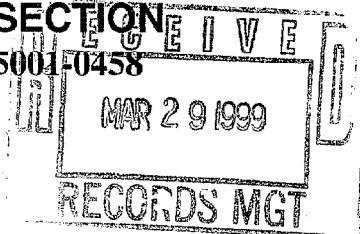
DWR-55-71-8/94(Rev)

*Show vault of diagram*  
*Call*  
*No Variance Needed*  
*msg 1230 4/10*

# ARIZONA DEPARTMENT OF WATER RESOURCES GROUNDWATER MANAGEMENT SUPPORT SECTION

MAIL TO: P. O. BOX 458 - PHOENIX ARIZONA 85001-0458

Phone (602) 417-2470



## COMPLETION REPORT

(Pump Installation Report)

1. Per A.R.S. § 45-6000, the Completion Report is to be filed with the Department within 30 days after installation of pump equipment by the registered well owner.
2. Drawdown of the water level for a non-flowing well should be measured in feet after not less than 4 hours of continuous operations. For a flowing well the shut-in pressure should be measured in feet above the land surface or in pounds per square inch at the land surface.
3. The static groundwater level should be measured in feet from the land surface immediately prior to the capacity test.
4. The tested pumping capacity of the well in gallons per minute for a non-flowing well should be determined by measuring the discharge of the pump after continuous operation for at least 4 hours and for a flowing well be measuring the natural flow at the land surface.

REGISTRATION NO: 55- 556090

FILE NO: D(4-9)28 ADD

### LOCATION OF THE WELL:

Township 4 N(S) Range 9 (E)W Section 28  $\frac{1}{4}$  SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  NE  
10-acre 40-acre 160-acre

### EQUIPMENT INSTALLED:

Kind of pump Stainless Steel Submersible Kind of power Electric  
Turbine, Submersible, Centrifugal, etc. Electric, natural gas, gasoline, etc.  
H.P. Rating of Motor 3 Pumping Capacity 10 gpm Date Pump Installed 5-15-96

### WELL TEST:

Test pumping capacity 10 Gallons per minute Date Well Tested 5-15-96  
Method of Discharge Measurement 5 Gallon Bucket & Stopwatch  
Weir, orifice, current meter, etc.  
Static Groundwater Level 163.57 ft. Drawdown 20 ft.  
Total Pumping Lift \_\_\_\_\_ ft. Drawdown \_\_\_\_\_ lbs  
(Flowing Well)

I HEREBY CERTIFY that the above statements are true to the best of my knowledge and belief.

Print Well Owner's Name BHP Copper Address Florence Project City \_\_\_\_\_ State \_\_\_\_\_ Zip 3/26/99  
14605 East Hunt Highway  
Signature of Well Owner Florence, AZ 85232 Phone Number \_\_\_\_\_ Date \_\_\_\_\_  
111 (520) 968-4741 Fax (602) 368-0433  
868-5090

DWR 55-56 (Rev 6/98)

Carrolla Hoag, Senior Geologist  
MAILED MAR 30 1999 Mailed 3/26/99

31-  
MAY 30 1996

RECORDS MGT

**ARIZONA DEPARTMENT OF WATER RESOURCES**  
**GROUNDWATER MANAGEMENT SUPPORT SECTION**  
500 North Third Street  
Phoenix, Arizona 85004-3903

**THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS**

**WELL REGISTRATION NO: 55-556090**

**AUTHORIZED DRILLER: STEWART BROTHERS DRILLING CO.**

**LICENSE NO: 314**

**NOTICE OF INTENTION TO DRILL A MONITOR WELL HAS BEEN FILED WITH THE DEPARTMENT BY:**

**CONSULTANT: BROWN & CALDWELL**

**WELL OWNER: BHP**

**The well(s) is/are to be located in the:**

**SW 1/4 of the SW 1/4 of the NE 1/4 Section 28 Township 4 SOUTH Range 9 EAST**

**No. of wells in this project: 1**

**THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 1ST DAY OF APRIL, 1997.**

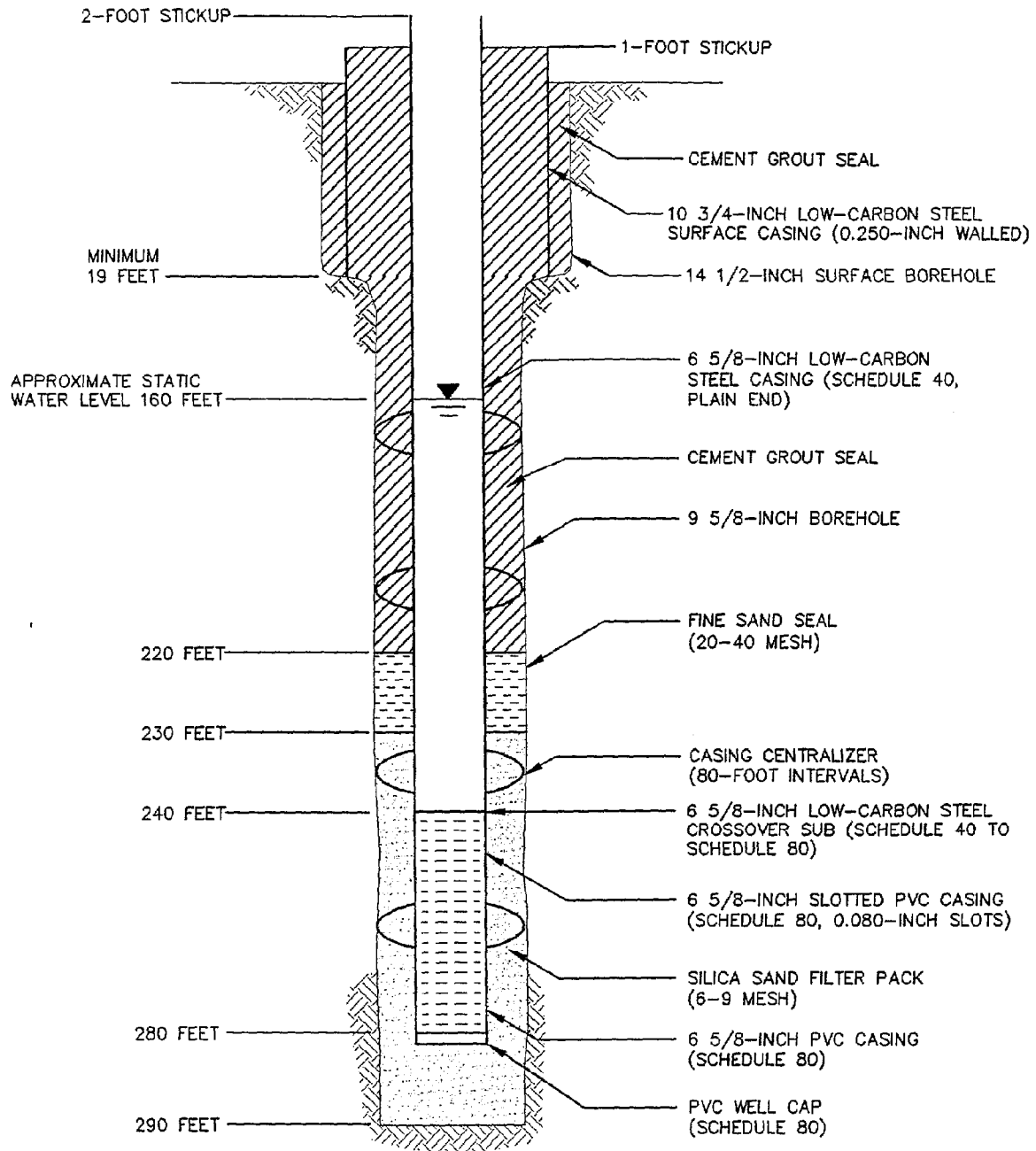
  
**CHIEF, GROUNDWATER MANAGEMENT SUPPORT**

**THE DRILLER MUST FILE A LOG OF THE WELL  
WITHIN 30 DAYS OF COMPLETION OF DRILLING**





Note: Submersible pump enclosed in a locked vault to be included per A.A.C. Rule R12-15-811.H.2



#### NOTES:

1. PVC = POLYVINYL CHLORIDE
2. ALL DIAMETERS ARE O.D.
3. DEPTHS ARE PRELIMINARY AND WILL BE BASED ON LOCAL GEOLOGY AND WILL BE DETERMINED BY THE CONSULTANT.

NOT TO SCALE

BROWN AND CALDWELL

*Dubf*  
**MONITOR WELL  
DESIGN**

**BHP**

Florence, Arizona

**ARIZONA DEPARTMENT OF WATER RESOURCES**

500 North Third Street, Phoenix, Arizona 85004

Telephone (602) 417-2470

Fax (602) 417-2422



FIFE SYMINGTON  
Governor

RITA P. PEARSON  
Director

April 24, 1996

BHP  
14605 E. Hunt Highway  
Florence, AZ 85232

RE: Registration No. 55-556090 thru 55-556094  
File No. Various

Dear Well Owner:

Enclosed for your records is an annotated copy of the Notice of Intention to Drill a well. This is returned to you as evidence of compliance with A.R.S. §45-596. A drilling card has been mailed to your designated driller. Prior to drilling he must have it in his possession.

Since this well is being drilled as a Monitor well, or for Cathodic Protection, Grounding, Geotechnical or Piezometer purposes, our standard driller report form is also being furnished to the driller. He is required to complete it and return it to the Department within 30 days after the completion of the well. A Completion Report form is being furnished for monitor wells where pump installation is authorized. This must be completed within thirty days of installation as required by A.R.S. §45-600.

A Change of Well Information form is enclosed for your future use. If you deem it necessary to change the location of the proposed well, please notify the Department on the enclosed form. A properly amended Drilling Card will then be issued and must be in possession of the driller before drilling begins. During the drilling of a new well, if it is determined that it must be abandoned, then a Well Abandonment Completion Report must be submitted per R12-15-816.F.

Per A.R.S. §45-593, the person to whom a well is registered shall notify this Department of a change of ownership of the well and/or information pertaining to the physical characteristics of the well, in order to keep the well registration file current and accurate.

Sincerely,

Dorothy Boggs  
Groundwater Permit Specialist

**ARIZONA DEPARTMENT OF WATER RESOURCES**  
**GROUNDWATER MANAGEMENT SUPPORT SECTION**  
500 North Third Street  
Phoenix, Arizona 85004-3903

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO: 55-556090

AUTHORIZED DRILLER: STEWART BROTHERS DRILLING CO.

LICENSE NO: 314

NOTICE OF INTENTION TO DRILL A MONITOR WELL HAS BEEN FILED WITH THE DEPARTMENT BY:

CONSULTANT: BROWN & CALDWELL

WELL OWNER: BHP

The well(s) is/are to be located in the:

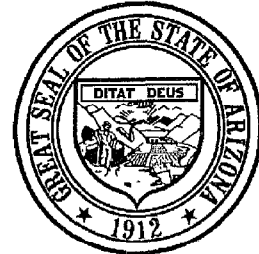
SW 1/4 of the SW 1/4 of the NE 1/4 Section 28 Township 4 SOUTH Range 9 EAST

No. of wells in this project: 1

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 1ST DAY OF APRIL, 1997.

  
\_\_\_\_\_  
CHIEF, GROUNDWATER MANAGEMENT SUPPORT

THE DRILLER MUST FILE A LOG OF THE WELL  
WITHIN 30 DAYS OF COMPLETION OF DRILLING



ARIZONA DEPARTMENT OF WATER RESOURCES  
GROUNDWATER MANAGEMENT SUPPORT SECTION  
500 North Third Street  
Phoenix, Arizona 85004-3903

**REISSUE**

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO: 55-556090

AUTHORIZED DRILLER: STEWART BROTHERS DRILLING COMPANY

LICENSE NO: 314

NOTICE OF INTENTION TO DRILL A MONITOR WELL HAS BEEN FILED WITH THE DEPARTMENT BY:

CONSULTANT: BROWN & CALDWELL

WELL OWNER: BHP

The well(s) is/are to be located in the:

SE 1/4 of the SE 1/4 of the NE 1/4 Section 28 Township 4 SOUTH Range 9 EAST

No. of wells in this project: 1

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 1ST DAY OF APRIL, 1997.

  
CHIEF, GROUNDWATER MANAGEMENT SUPPORT

THE DRILLER MUST FILE A LOG OF THE WELL  
WITHIN 30 DAYS OF COMPLETION OF DRILLING

